

SunBeam Institute of Information Technology

Java Assignment 5

Assignment based on String

Q1) Write a java program to reverse a String

Q2) Write a java code to check string is palindrome.

Q3) write a java program to count number of words in a String.

Hint: You can use , trim() , length() and split() methods

Q4) Write an enum type TrafficLight, whose constants (RED, GREEN, YELLOW) take one parameter—the duration of the light. Write a program to test the TrafficLight enum so that it displays the enum constants and their durations.

OPTIONAL ASSIGNMENT FOR PRACTICE

Q1) Develop a Java application that determines whether any of several department-store customers has exceeded the credit limit on a charge account.

For each customer, the following facts are available:

- a) account number
- b) balance at the beginning of the month
- c) total of all items charged by the customer this month
- d) total of all credits applied to the customer's account this month
- e) allowed credit limit.

The program should input all these facts as integers, calculate the new balance (= beginning balance+ charges – credits)

display the new balance and determine whether the new balance exceeds the customer's credit limit. For those customers whose credit limit is exceeded, the program should display the message "Credit limit exceeded".

Q2) Create an application that calculates your daily driving cost, so that you can estimate how much money could be saved by car pooling, which also has other advantages such as reducing carbon emissions and reducing traffic congestion. The application should input the following information and display the user's cost per day of driving to work:

- a) Total miles driven per day.
- b) Cost per gallon of gasoline.
- c) Average miles per gallon.
- d) Parking fees per day.
- e) Tolls per day.